

SEQUENCE LISTING

<110> Law, Lane K.
Davidson, Beverly L.

<120> Adenovirus serotype 30 (Ad30)

<130> 875.044US1

<160> 24

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 371

<212> PRT

<213> Adenovirus

<400> 1

Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro
1 5 10 15
Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
20 25 30
Val Ser Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu
35 40 45
Lys Leu Ala Asp Pro Ile Ala Ile Thr Asn Gly Asp Val Ser Leu Lys
50 55 60
Val Gly Gly Leu Thr Val Glu Gln Asp Ser Gly Asn Leu Ser Val
65 70 75 80
Asn Pro Lys Ala Pro Leu Gln Val Gly Thr Asp Lys Lys Leu Glu Leu
85 90 95
Ala Leu Ala Pro Pro Phe Asp Val Arg Asp Asn Lys Leu Ala Ile Leu
100 105 110
Val Gly Asp Gly Leu Lys Val Ile Asp Arg Ser Ile Ser Asp Leu Pro
115 120 125
Gly Leu Leu Asn Tyr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Asn
130 135 140
Glu Glu Leu Lys Asn Asp Asp Gly Ser Asn Lys Gly Val Gly Leu Cys
145 150 155 160
Val Arg Ile Gly Glu Gly Gly Leu Thr Phe Asp Asp Lys Gly Tyr
165 170 175
Leu Val Ala Trp Asn Asn His Asp Ile Arg Thr Leu Trp Thr Thr
180 185 190
Leu Asp Pro Ser Pro Asn Cys Lys Ile Asp Ile Glu Lys Asp Ser Lys
195 200 205
Leu Thr Leu Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Asn Val
210 215 220
Ser Leu Ile Ile Val Asn Gly Lys Phe Lys Ile Leu Asn Asn Lys Thr
225 230 235 240
Asp Pro Ser Leu Pro Lys Ser Phe Asn Ile Lys Leu Leu Phe Asp Gln
245 250 255
Asn Gly Val Leu Leu Glu Asn Ser Asn Ile Glu Lys Gln Tyr Leu Asn
260 265 270
Phe Arg Ser Gly Asp Ser Ile Leu Pro Glu Pro Tyr Lys Asn Ala Ile
275 280 285
Gly Phe Met Pro Asn Leu Leu Ala Tyr Ala Lys Ala Thr Thr Asp Gln
290 295 300
Ser Lys Ile Tyr Ala Arg Asn Thr Ile Tyr Gly Asn Ile Tyr Leu Asp
305 310 315 320

Asn Gln Pro Tyr Asn Pro Val Val Ile Lys Ile Thr Phe Asn Asn Glu			
325	330	335	
Ala Asp Ser Ala Tyr Ser Ile Thr Phe Asn Tyr Ser Trp Thr Lys Asp			
340	345	350	
Tyr Asp Asn Ile Pro Phe Asp Ser Thr Ser Phe Thr Phe Ser Tyr Ile			
355	360	365	
Ala Gln Glu			
370			

<210> 2
 <211> 362
 <212> PRT
 <213> Adenovirus

<400> 2			
Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro			
1	5	10	15
Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe			
20	25	30	
Val Ser Ser Asp Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu			
35	40	45	
Lys Leu Ala Asp Pro Ile Ala Ile Val Asn Gly Asn Val Ser Leu Lys			
50	55	60	
Val Gly Gly Gly Leu Thr Leu Gln Asp Gly Thr Gly Lys Leu Thr Val			
65	70	75	80
Asn Ala Asp Pro Pro Leu Gln Leu Thr Asn Asn Lys Leu Gly Ile Ala			
85	90	95	
Leu Asp Ala Pro Phe Asp Val Ile Asp Asn Lys Leu Thr Leu Ala			
100	105	110	
Gly His Gly Leu Ser Ile Ile Thr Lys Glu Thr Ser Thr Leu Pro Gly			
115	120	125	
Leu Arg Asn Thr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu			
130	135	140	
Ser Thr Asp Asn Gly Gly Thr Val Cys Val Arg Val Gly Glu Gly Gly			
145	150	155	160
Gly Leu Ser Phe Asn Asn Asp Gly Asp Leu Val Ala Phe Asn Lys Lys			
165	170	175	
Glu Asp Lys Arg Thr Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys			
180	185	190	
Lys Ile Asp Gln Asp Lys Asp Ser Lys Leu Thr Leu Val Leu Thr Lys			
195	200	205	
Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile Val Val Asp Gly			
210	215	220	
Lys Tyr Lys Ile Ile Asn Asn Asn Thr Gln Pro Ala Leu Lys Gly Phe			
225	230	235	240
Thr Ile Lys Leu Leu Phe Asp Glu Asn Gly Val Leu Met Glu Ser Ser			
245	250	255	
Asn Leu Gly Lys Ser Tyr Trp Asn Phe Arg Asn Glu Asn Ser Ile Met			
260	265	270	
Ser Thr Ala Tyr Glu Lys Ala Ile Gly Phe Met Pro Asn Leu Val Ala			
275	280	285	
Tyr Pro Lys Pro Thr Ala Gly Ser Lys Lys Tyr Ala Arg Asp Ile Val			
290	295	300	
Tyr Gly Asn Ile Tyr Leu Gly Gly Lys Pro Asp Gln Pro Val Thr Ile			
305	310	315	320
Lys Thr Thr Phe Asn Gln Glu Thr Gly Cys Glu Tyr Ser Ile Thr Phe			
325	330	335	

Asp Phe Ser Trp Ala Lys Thr Tyr Val Asn Val Glu Phe Glu Thr Thr		
340	345	350
Ser Phe Thr Phe Ser Tyr Ile Ala Gln Glu		
355	360	

<210> 3

<211> 366

<212> PRT

<213> Adenovirus

<400> 3

Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro			
1	5	10	15
Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe			
20	25	30	
Val Ser Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu			
35	40	45	
Lys Leu Ala Asp Pro Ile Thr Ile Ala Asn Gly Asp Val Ser Leu Lys			
50	55	60	
Val Gly Gly Gly Leu Thr Leu Gln Glu Gly Ser Met Thr Val Asp Pro			
65	70	75	80
Lys Ala Pro Leu Gln Leu Ala Asn Asn Lys Lys Leu Glu Leu Val Tyr			
85	90	95	
Val Asp Pro Phe Glu Val Ser Ala Asn Lys Leu Ser Leu Lys Val Gly			
100	105	110	
His Gly Leu Lys Ile Leu Asp Asp Lys Ser Ala Gly Gly Leu Lys Asp			
115	120	125	
Leu Ile Gly Lys Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu			
130	135	140	
Asn Leu Gln Asn Thr Asp Gly Ser Ser Arg Gly Ile Gly Ile Ser Val			
145	150	155	160
Arg Ala Arg Glu Gly Leu Thr Phe Asp Asn Asp Gly Tyr Leu Val Ala			
165	170	175	
Trp Asn Pro Lys Tyr Asp Thr Arg Thr Leu Trp Thr Thr Pro Asp Thr			
180	185	190	
Ser Pro Asn Cys Arg Ile Asp Lys Glu Lys Asp Ser Lys Leu Thr Leu			
195	200	205	
Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile			
210	215	220	
Val Val Ser Gly Lys Tyr Gln Tyr Ile Asp His Ala Thr Asn Pro Thr			
225	230	235	240
Leu Lys Ser Phe Lys Ile Lys Leu Leu Phe Asp Asn Lys Gly Val Leu			
245	250	255	
Leu Pro Ser Ser Asn Leu Asp Ser Thr Tyr Trp Asn Phe Arg Ser Asp			
260	265	270	
Asn Leu Thr Val Ser Glu Ala Tyr Lys Asn Ala Val Glu Phe Met Pro			
275	280	285	
Asn Leu Val Ala Tyr Pro Lys Pro Thr Thr Gly Ser Lys Lys Tyr Ala			
290	295	300	
Arg Asp Ile Val Tyr Gly Asn Ile Tyr Leu Gly Leu Ala Tyr Gln			
305	310	315	320
Pro Val Val Ile Lys Val Thr Phe Asn Glu Glu Ala Asp Ser Ala Tyr			
325	330	335	
Ser Ile Thr Phe Glu Phe Val Trp Asn Lys Glu Tyr Ala Arg Val Glu			
340	345	350	
Phe Glu Thr Thr Ser Phe Thr Phe Ser Tyr Ile Ala Gln Gln			
355	360	365	

<210> 4
<211> 362
<212> PRT
<213> Adenovirus

<400> 4
Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro
1 5 10 15
Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
20 25 30
Val Ser Ser Asp Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu
35 40 45
Lys Leu Ala Asp Pro Ile Ala Ile Val Asn Gly Asn Val Ser Leu Lys
50 55 60
Val Gly Gly Leu Thr Leu Gln Asp Gly Thr Gly Lys Leu Thr Val
65 70 75 80
Asn Ala Asp Pro Pro Leu Gln Leu Thr Asn Asn Lys Leu Gly Ile Ala
85 90 95
Leu Asp Ala Pro Phe Asp Val Ile Asp Asn Lys Leu Thr Leu Ala
100 105 110
Gly His Gly Leu Ser Ile Ile Thr Lys Glu Thr Ser Thr Leu Pro Gly
115 120 125
Leu Arg Asn Thr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu
130 135 140
Ser Thr Asp Asn Gly Gly Thr Val Cys Val Arg Val Gly Glu Gly Gly
145 150 155 160
Gly Leu Ser Phe Asn Asn Asp Gly Asp Leu Val Ala Phe Asn Lys Lys
165 170 175
Glu Asp Lys Arg Thr Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys
180 185 190
Lys Ile Asp Gln Asp Lys Asp Ser Lys Leu Thr Leu Val Leu Thr Lys
195 200 205
Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile Val Val Asp Gly
210 215 220
Lys Tyr Lys Ile Ile Asn Asn Asn Thr Gln Pro Ala Leu Lys Gly Phe
225 230 235 240
Thr Ile Lys Leu Leu Phe Asp Glu Asn Gly Val Leu Met Glu Ser Ser
245 250 255
Asn Leu Gly Lys Ser Tyr Trp Asn Phe Arg Asn Glu Asn Ser Ile Met
260 265 270
Ser Thr Ala Tyr Glu Lys Ala Ile Gly Phe Met Pro Asn Leu Val Ala
275 280 285
Tyr Pro Lys Pro Thr Ala Gly Ser Lys Lys Tyr Ala Arg Asp Ile Val
290 295 300
Tyr Gly Asn Ile Tyr Leu Gly Gly Lys Pro Asp Gln Pro Val Thr Ile
305 310 315 320
Lys Thr Thr Phe Asn Gln Glu Thr Gly Cys Glu Tyr Ser Ile Thr Phe
325 330 335
Asp Phe Ser Trp Ala Lys Thr Tyr Val Asn Val Glu Phe Glu Thr Thr
340 345 350
Ser Phe Thr Phe Ser Tyr Ile Ala Gln Glu
355 360

<210> 5
<211> 581

<212> PRT

<213> Adenovirus

<400> 5

Met Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro
1 5 10 15
Tyr Asp Thr Glu Thr Gly Pro Pro Thr Val Pro Phe Leu Thr Pro Pro
20 25 30
Phe Val Ser Pro Asn Gly Phe Gln Glu Ser Pro Pro Gly Val Leu Ser
35 40 45
Leu Arg Leu Ser Glu Pro Leu Val Thr Ser Asn Gly Met Leu Ala Leu
50 55 60
Lys Met Gly Asn Gly Leu Ser Leu Asp Glu Ala Gly Asn Leu Thr Ser
65 70 75 80
Gln Asn Val Thr Thr Val Ser Pro Pro Leu Lys Lys Thr Lys Ser Asn
85 90 95
Ile Asn Leu Glu Ile Ser Ala Pro Leu Thr Val Thr Ser Glu Ala Leu
100 105 110
Thr Val Ala Ala Ala Ala Pro Leu Met Val Ala Gly Asn Thr Leu Thr
115 120 125
Met Gln Ser Gln Ala Pro Leu Thr Val His Asp Ser Lys Leu Ser Ile
130 135 140
Ala Thr Gln Gly Pro Leu Thr Val Ser Glu Gly Lys Leu Ala Leu Gln
145 150 155 160
Thr Ser Gly Pro Leu Thr Thr Asp Ser Ser Thr Leu Thr Ile Thr
165 170 175
Ala Ser Pro Pro Leu Thr Thr Ala Thr Gly Ser Leu Gly Ile Asp Leu
180 185 190
Lys Glu Pro Ile Tyr Thr Gln Asn Gly Lys Leu Gly Leu Lys Tyr Gly
195 200 205
Ala Pro Leu His Val Thr Asp Asp Leu Asn Thr Leu Thr Val Ala Thr
210 215 220
Gly Pro Gly Val Thr Ile Asn Asn Thr Ser Leu Gln Thr Lys Val Thr
225 230 235 240
Gly Ala Leu Gly Phe Asp Ser Gln Gly Asn Met Gln Leu Asn Val Ala
245 250 255
Gly Gly Leu Arg Ile Asp Ser Gln Asn Arg Arg Leu Ile Leu Asp Val
260 265 270
Ser Tyr Pro Phe Asp Ala Gln Asn Gln Leu Asn Leu Arg Leu Gly Gln
275 280 285
Gly Pro Leu Phe Ile Asn Ser Ala His Asn Leu Asp Ile Asn Tyr Asn
290 295 300
Lys Gly Leu Tyr Leu Phe Thr Ala Ser Asn Asn Ser Lys Lys Leu Glu
305 310 315 320
Val Asn Leu Ser Thr Ala Lys Gly Leu Met Phe Asp Ala Thr Ala Ile
325 330 335
Ala Ile Asn Ala Gly Asp Gly Leu Glu Phe Gly Ser Pro Asn Ala Pro
340 345 350
Asn Thr Asn Pro Leu Lys Thr Lys Ile Gly His Gly Leu Glu Phe Asp
355 360 365
Ser Asn Lys Ala Met Val Pro Lys Leu Gly Thr Gly Leu Ser Phe Asp
370 375 380
Ser Thr Gly Ala Ile Thr Val Gly Asn Lys Asn Asn Asp Lys Leu Thr
385 390 395 400
Leu Trp Thr Thr Pro Ala Pro Ser Pro Asn Cys Arg Leu Asn Ala Glu
405 410 415
Lys Asp Ala Lys Leu Thr Leu Val Leu Thr Lys Cys Gly Ser Gln Ile
420 425 430

Leu Ala Thr Val Ser Val Leu Ala Val Lys Gly Ser Leu Ala Pro Ile
 435 440 445
 Ser Gly Thr Val Gln Ser Ala His Leu Ile Ile Arg Phe Asp Glu Asn
 450 455 460
 Gly Val Leu Leu Asn Asn Ser Phe Leu Asp Pro Glu Tyr Trp Asn Phe
 465 470 475 480
 Arg Asn Gly Asp Leu Thr Glu Gly Thr Ala Tyr Thr Asn Ala Val Gly
 485 490 495
 Phe Met Pro Asn Leu Ser Ala Tyr Pro Lys Ser His Gly Lys Thr Ala
 500 505 510
 Lys Ser Asn Ile Val Ser Gln Val Tyr Leu Asn Gly Asp Lys Thr Lys
 515 520 525
 Pro Val Thr Leu Thr Ile Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp
 530 535 540
 Thr Thr Pro Ser Ala Tyr Ser Met Ser Phe Ser Trp Asp Trp Ser Gly
 545 550 555 560
 His Asn Tyr Ile Asn Glu Ile Phe Ala Thr Ser Ser Tyr Thr Phe Ser
 565 570 575
 Tyr Ile Ala Gln Glu
 580

<210> 6

<211> 32

<212> DNA

<213> Adenovirus

<400> 6

cgggatccgc caccatgtca aagaggctcc gg

32

<210> 7

<211> 28

<212> DNA

<213> Adenovirus

<400> 7

cgggatcctr attcttgggc yatatagg

28

<210> 8

<211> 27

<212> DNA

<213> Adenovirus

<400> 8

cgcggatccg cgatgaagcg cgcaaga

27

<210> 9

<211> 36

<212> DNA

<213> Adenovirus

<400> 9

gattgggtca gccagtttca aagagagttac cccagg

36

<210> 10

<211> 33

<212> DNA

<213> Adenovirus

<400> 10		
cctgggtac tctcttcaa actggctgac cca		33
<210> 11		
<211> 27		
<212> DNA		
<213> Adenovirus		
<400> 11		
aaaactagtt cattcttggg cgatata		27
<210> 12		
<211> 1116		
<212> DNA		
<213> Adenovirus		
<400> 12		
atgtcaaaga ggctccgggt ggaagatgac ttcaaccccg tctaccccta tggctacgcg	60	
cggaatcaga atatcccctt ccttactccc ccctttgtct catccgatgg attcaaaaac	120	
ttcccacctg gggtcctgtc actcaaactg gctgacccaa tcgccatcac taatggggat	180	
gtctcaactca aggtgggagg gggactaact gtggaacaag atagtggaaa cctaagtgt	240	
aaccctaagg ctccattgca agttggaaaca gacaaaaaaac tggaaattggc tttagcacct	300	
ccatTTgtat tcagagataa caagctagct attctagtag gagatggatt aaaggtataa	360	
gatagatcaa tatctgattt ggcaggTTTt ttaaactatc ttgttagTTTt gactggcaaa	420	
ggaattggaa atgaagaatt aaaaatgac gatggtagca ataaaggagt cggttatgt	480	
gtgagaattt gagaaggagg tggTTTact tttgatgata aaggttattt agtagcatgg	540	
aacaataaaac atgacatccg cacactttgg acaacttttag acccttctcc aaattgtaa	600	
atagatataa aaaaagactc aaaactaact ttggtaactga caaagtgcgg aagtcaagatt	660	
ttggcaaataat tatctctaaat tatagtcaac ggaaagtca agatccttaa taacaaaaca	720	
gaccatcccc tacctaaatc atttaacatc aaactactgt ttgataaaaa tggagttcta	780	
ttggaaaatt caaacattga aaaacagtac ctaaacttta gaagtggaga ctctattctt	840	
ccagagccat ataaaaatgc aattggattt atgcctaatt tactagctt tgctaaagct	900	
acaactgatc agtctaaaat ttatgcaagg aacactatat atggaaatat ctacttagat	960	
aatcagccat ataattccagt tgaattaaa attacttttataatgaagc agatagtgt	1020	
tattctatca cttttaacta ttcatggacc aaggactatg acaatatccc ttttgattct	1080	
acttcattta ctttctccta tatcgcccaa gaatga	1116	
<210> 13		
<211> 14		
<212> PRT		
<213> Adenovirus		
<400> 13		
Leu Trp Thr Thr Leu Asp Pro Ser Pro Asn Cys Lys Ile Asp		
1	5	10
<210> 14		
<211> 14		
<212> PRT		
<213> Adenovirus		
<400> 14		
Leu Trp Thr Thr Pro Ala Pro Ser Pro Asn Cys Arg Leu Asn		
1	5	10
<210> 15		
<211> 14		
<212> PRT		

<213> Adenovirus

<400> 15

Leu Trp Thr Thr Pro Asp Pro Ser Pro Asn Cys Arg Ile His
1 5 10

<210> 16

<211> 14

<212> PRT

<213> Adenovirus

<400> 16

Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys Lys Ile Asp
1 5 10

<210> 17

<211> 14

<212> PRT

<213> Adenovirus

<400> 17

Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys Lys Ile Asp
1 5 10

<210> 18

<211> 14

<212> PRT

<213> Adenovirus

<400> 18

Leu Trp Thr Gly Pro Lys Pro Glu Ala Asn Cys Ile Ile Glu
1 5 10

<210> 19

<211> 18

<212> PRT

<213> Adenovirus

<400> 19

Gly Asp Ser Ile Leu Pro Glu Pro Tyr Lys Asn Ala Ile Gly Phe Met
1 5 10 15
Pro Asn

<210> 20

<211> 18

<212> PRT

<213> Adenovirus

<400> 20

Leu Asp Pro Glu Tyr Trp Asn Phe Arg Asn Gly Asp Leu Thr Glu Gly
1 5 10 15
Thr Ala

<210> 21

<211> 18

<212> PRT

<213> Adenovirus

<400> 21

Leu Lys Lys His Tyr Trp Asn Phe Arg Asn Gly Asn Ser Thr Asn Ala
1 5 10 15
Asn Pro

<210> 22

<211> 18

<212> PRT

<213> Adenovirus

<400> 22

Leu Gly Lys Ser Tyr Trp Asn Phe Arg Asn Glu Asn Ser Ile Met Ser
1 5 10 15
Thr Ala

<210> 23

<211> 18

<212> PRT

<213> Adenovirus

<400> 23

Leu Asp Ser Thr Tyr Trp Asn Phe Arg Ser Asp Asn Leu Thr Val Ser
1 5 10 15
Glu Ala

<210> 24

<211> 8

<212> PRT

<213> Adenovirus

<400> 24

Ser Ala Arg Gly Phe Met Pro Ser
1 5